Weston Solutions, Inc.
East Division
3 Riverside Drive
Andover, Massachusetts 01810
978-552-2100 - Fax 978-658-0700

503100
32

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT EP-W-05-042

21 August 2013
20114-081-998-0850-49
DC No. A-6829

SDMS DocID 584979

Ms. Martha Bosworth
U.S. EPA Region I - New England
Emergency Planning & Response Branch
5 Post Office Square, Suite 100
Mail Code OSRR07-2
Boston, Massachusetts 02109-3912

Subject: Case No. 43392; SDG No. A4B09
ChemTech Consulting Group (Chem)
Jard Company Inc
Bennington, Vermont
AROCLOR: 7/Aqueous/A4B09-A4B15
(Field Duplicates A4A97/A4B00)
2/Aqueous PEs/A4B03, A4B04
CERCLIS No. VTD048141741
TDD No. 12-10-0008, Task No. 0850-49

Dear Ms. Bosworth:

A Tier II validation was performed on the organic analytical data for seven aqueous equipment (rinsate) blanks collected by WESTON START at the Jard Company Inc site in Bennington, Vermont, and for two PE samples obtained from EPA Region I. *Italicized sample ID numbers in the list above are associated with samples in this SDG, but reported in another SDG.* The samples were analyzed under CLP following SOW SOM01.2 as low/medium level for Aroclor compounds. The data were evaluated as Tier II level in accordance with the "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996, and the USEPA CLP National Functional Guidelines for Superfund Organic Methods, and were based on the following parameters:

	•	Overall Evaluation of Data and Potential Usability Issues.
*	•	Data Completeness.
*	•	Preservation and Technical Holding Times.
*	•	GC/MS and GC/ECD Instrument Performance Checks.
	•	IC and CC.
*	•	Blanks.
	•	Surrogate Compounds.
NA	•	IS.
*	•	MS/MSD.
NA	•	Field Duplicates.
NA	•	Sensitivity Check (MDL Study or LFB).
*	•	PE Samples/Accuracy Check.

*	•	Target Compound Identification.
*	•	Sample Quantitation and Reported Quantitation Limits.
NA	•	TICs.
*	•	SVOC and PEST/PCB Cleanup.
*	•	System Performance.
NA	•	SEDD/ADR.

* = No qualifications will be applied based on this parameter.

Table I summarizes overall evaluation of the data with reference to the DQO and potential usability issues. Qualified data are summarized in Data Summary Table 1.

Overall Evaluation of Data and Potential Usability Issues

See Table I for overall evaluation of data and potential usability issues.

Initial and Continuing Calibration

Compounds that did not meet RSD criteria in the IC, %D criteria in the CC, and/or RRF criteria in the IC or CC are summarized in the following tables:

AROCLORS:

Compound	CV 4/12/13	CV 4/19/13
TCX	× (2)	
Aroclor-1260 (peak 2)		× (2)
Samples Affected:	A4B09-A4B13	A4B14, A4B15

Actions:
× = %RSD >20 or %D >15. Estimate (J) all positive results.
(1) = Criteria failed on Column No. 1.
(2) = Criteria failed on Column No. 2.

Sample results will be qualified as indicated above.

Surrogate Compounds

AROCLORS:

Samples in which two or more Aroclor surrogate recoveries did not meet criteria are summarized in the following table:

Sample No.	No. of Surrogates Out	Action Pos/ND
A4B14	2	J/A
A4B15	1	J/A

Sample results will be qualified as indicated above.

Please contact the undersigned at (978) 552-2100 if you have any questions or need further information.

Very truly yours,

WESTON SOLUTIONS, INC.
Region I START

William W. Mahany
Principal Project Scientist

John Burton
Lead Chemist

email cc: Jennifer Feranda (CLP PO - Region II) - DV Letter w/Data Tables, and ORDA Form only – Feranda.jennifer@epa.gov

Attachments:
Table I: Overall Evaluation of Soil Data
Data Summary Key
Acronym List
Data Summary Table 1
DV Worksheets
PE Sample Score Reports (included in DV worksheets)
Field Sampling Notes (including a copy of sampler's COC Records)
CSF Audit (DC-2 Form) - Evidence Audit Photocopy (Including CSF Receipt/Transfer Form)
DQO Summary Form

TABLE I

JARD COMPANY INC
Case No. 43392; SDG No. A4B09

Overall Evaluation of Aqueous Data

AROCLORs					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		
1. Collect ground water samples from previously installed monitoring wells on and off the property for PCB (Aroclor) analysis, to document potential contamination in the groundwater associated with source areas located on the property.	*Analytical Method:* Yes, SOM01.2 *Sampling Method:* Yes, Bladders, Peristaltic.	Refer to qualifications in attached Data Summary Table 1. 1,2	Refer to qualifications in attached Data Summary Table 1.		1. The TCX %D on 4/12/13 was greater than 15% on column 2. No qualifications were applied to non-detect samples since the criteria were met on column 1. The %D of Aroclor 1260 peak 2 on 4/19/13 was greater than 15% on column 2. No qualifications were applied to non-detect samples since the criteria were met on column 1. 2. Surrogate recoveries in sample A4B14 were greater than the acceptance criteria. No qualifications were applied since the sample result was non-detected.

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

DATA SUMMARY KEY
ORGANIC DATA VALIDATION

J	=	The associated numerical value is an estimated quantity.
R	=	The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL.
U	=	The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL.
UJ	=	The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL.
EB	=	The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples.
TB	=	The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples.
BB	=	The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST
ORGANIC DATA VALIDATION

AQ	aqueous
AQ FB	aqueous field blank
BB	Bottle Blank
B/N	base/neutral compound
°C	degrees Celsius
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CLP	Contract Laboratory Program
COC	Chain-of-Custody record
COR	Contracting Officer Representative
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
%D	percent difference
DAS	Delivery of Analytical Services
DMC	Deuterated Monitoring Compound
DQO	Data Quality Objective
DV	Data Validation
DW	drinking water
EB	Equipment Blank
EPA	Environmental Protection Agency
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometry
GW	groundwater
IC	Initial Calibration
IS	Internal Standard
kg	kilogram
L	liter
LCS	Laboratory Control Sample
LFB	Laboratory Fortified Blank
MDL	Method Detection Limit
µg	microgram
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	non-detected result
ng	nanogram
NERL	New England Regional Laboratory
OSC	On-Scene Coordinator
ORDA	Organic Regional Data Assessment
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl compound
PEST/PCB	pesticide/polychlorinated biphenyl compound
PE	Performance Evaluation
Pos	positive result
QC	Quality Control
%R	percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SOW	Statement of Work
SQL	Sample Quantitation Limit
S/S	soil/sediment
S/S (m)	soil/sediment medium level
START	Superfund Technical Assessment and Response Team
SVOC	semivolatile organic compound
SW	surface water
TB	Trip Blank
TCL	Target Compound List
TDD	Technical Direction Document
TIC	Tentatively Identified Compound
TR	Traffic Report
VOC	volatile organic compound
WESTON	Weston Solutions, Inc.

SITE: JARD COMPANY INC
CASE: 43392 SDG: A4B09
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCLOR AQUEOUS ANALYSIS
µg/L

	SAMPLE NUMBER		A4B09	A4B10	A4B11	A4B12	A4B13	A4B14	A4B15
	SAMPLE LOCATION		RB-06	RB-07	RB-08	RB-40	RB-41	RB-42	RB-43
	STATION LOCATION		JCW-020	JCW-021	JCW-022	JCW-023	JCW-024	JCW-025	JCW-026
	LABORATORY NUMBER		E1819-01	E1819-02	E1819-03	E1819-04	E1819-05	E1819-06	E1819-07
COMPOUND	MDL	CRQL							
Aroclor-1016	0.08	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221	0.29	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	0.03	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	0.03	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248	0.02	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	0.05	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	0.04	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1262	0.2	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1268	0.06	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/10/2013	4/11/2013	4/12/2013
DATE EXTRACTED			4/11/2013	4/11/2013	4/11/2013	4/11/2013	4/11/2013	4/15/2013	4/15/2013
DATE ANALYZED			4/12/2013	4/12/2013	4/12/2013	4/12/2013	4/12/2013	4/19/2013	4/19/2013
SAMPLE VOLUME (mL)			1000	1000	1000	1000	1000	1000	1000

NOTES: µg/L = micrograms per Liter
MDL= Method Detection Limit
CRQL = Contract Required Quantitation Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
* = Reported value is from diluted analysis.
mL = milliLiter